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ROCKY FLATS

ENVIRONMENTAL RESTORATION





A PERIODIC UPDATE ON ROCKY FLATS CLEANUP . SEPTEMBER 1992

Report on Transition Submitted to Congress

Building-by-Building Cleanup

The transition process will involve all 436 buildings at the plant. However, because many of these buildings provided general support functions, they are not known to be contaminated and

will probably require nothing further than administrative transfer and documentation of their condition

Areas that may have been contaminated by previous activities in other buildings will be remediated as set forth in applicable environmental regulations Transition activities include describing current conditions, cataloguing and removing equipment, materials, and wastes, consolidating plutonium and other nuclear materials, and cleanup to a point where the buildings can be put to other uses

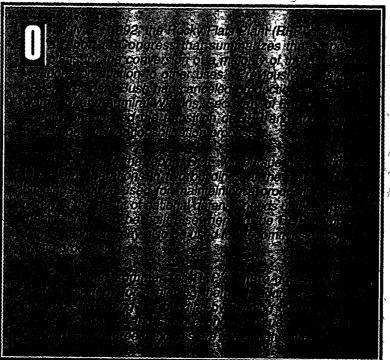
For each building, the process will generally range from 1 to 3 years, with the overall plant

cleanup expected to last beyond the next decade. Cleanup activities must take into consideration the interdependence of RFP programs, such as the dual missions of disposing of special nuclear materials and maintaining production-contingency readiness. In addition, the plant must meet other requirements related to waste management, environmental restoration, safety, security, and the maintenance of numerous support services and facilities, such as roads, water supply, sewage treatment, and medical facilities.

ADMIN RECORD

Socio-Economic Issues

RFP currently employs about 8,300 people and generates an additional 19,000 jobs in the region through the purchase of goods and services both by the plant and its employees RFP



is also located in a populated area, with some two million potentially-impacted people living within 50 miles of the plant. In planning the plant's transition, the issue of job losses must be examined.

DOE's ultimate goal for the future of RFP is environmental restoration and economic development to minimize socio-economic impacts. The aim is to identify-and develop opportunities for RFP staff to remain productively employed (not necessarily at RFP) and to make use of existing high-tech facilities for commercial or industrial development.

Plans for the Workforce

In spite of DOE's efforts to retain RFP employees or place them in positions af other DOE sites, the plant's change in mission is likely to necessitate some layoffs. DOE is working with local

communities to minimize the effects of any such reductions. Possible measures to achieve this goal include the following.

- incentives for voluntary retirement,
- training for displaced and re-assigned employees,
- outplacement assistance,
- protection of health-care benefits, and
- · health monitoring

The end result of the transition will be decontamination, dismantlement of many RFP faculities, and, finally, removal from service. The next step would involve transfer for alternative uses, which may be used by private industries, other DOE oper-

ations, or other government agencies

One issue not covered in the report to Congress is that of the potential liability on the part of future users or owners of land at Rocky Flats. This issue must be considered before any alternative uses are established.

A-public information meeting on the RFP Transition Report to Congress was held on September 16 in Westminster. The report is available for public review in the Reading Rooms listed on page 6.

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

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IAG Schedule Revision Possible

Imost two years have passed since the interagency Agreement (IAG) was signed among EPA, CDH, and DOE. The IAG establishes a procedural framework and schedule through which response actions are developed, implemented, and monitored in accordance with CERCLA, RCRA, and the Colorado Hazardous Waste Act. It clarifies the roles of EPA, CDH, and DOE, coordinates oversight efforts and corrective actions, standardizes requirements, and ensures

compliance with orders and permits. The IAG specifies delivery of major reports, project management activities, and milestones, and also outlines community involvement and decision-making responsibilities.

When the IAG was signed in January 1991, some basic assumptions and projections were made on timing and expense for remediating the 16 OUs at RFP Based on progress to date and up-to-date data, DOE

believes that a modified schedule for the IAG would reflect more current assumptions regarding the environmental restoration work yet to be undertaken at RFP Consequently, DOE has asked EPA and CDH to consider changing the IAG schedule After DOE has provided explanations for why it considers schedule changes necessary, EPA and CDH will evaluate the proposal

Field Sampling Activities Begun on Woman and Walnut Creek Areas

he Rocky Flats Plant recently began field surveying activities at the Woman Creek drainage area (OU5), and the Walnut Creek drainage

area (OU6) These activities are part

of the Phase I RCRA Facility Investi-

gation and Remedial Investigation

(RFI/RI) for each OU Both OUs con-

sist of potentially-contaminated surface

water, stream and pond sediments,

and soil Radionuclides, metals, inor-

ganic compounds, and organic com-

pounds from adjacent IHSSs may

have seeped into the Woman and/or

OU5 (Woman Creek drainage)

the original landfill, an area previously used to dispose of general

an incinerator used for RFP office

the ash pits that received incinera-

a former concrete wash pad where

uncured concrete for RFP construction was deposited and where

concrete delivery trucks were

washed (Incinerator ash may also have been-deposited on the con-

Walnut Creek drainages

RFP waste,

tor residues.

crete wash pads).

comprises ten IHSSs, including

and dumpster wastes,

- The C-Series detention ponds, and
- several areas of surficial soil disturbance

CONTROLLED AREA

∠ OU6 (Walnut-Creek
√ drainage) comprises 21 IHSSs, including

- the A- and B-Series detention ponds.
- spray fields, where water was sprayed to hasten its evaporation.
- an old outfall, where Building 771 laundry waste water and floor drain-water was discharged into open surface drainage.
- trenches that held excess sludge from the sewage treatment plant,
- a soil dump used to contain excavated soil

OU6 IHSSs are mactive and have not

supported plant functions since approximately 1968 Only a few limited investigations have been conducted at these IHSSs

from preliminary investigations, the following OU5 and OU6 Phase I RFI/RIs were identified

- the IHSSs.
- Assess the presence or absence of contamination at the sites.

The majority of these OU5 and

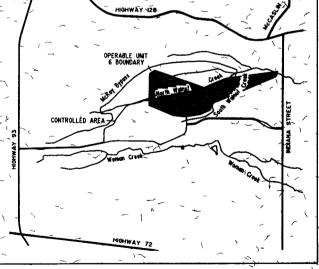
Based on data objectives for both the

Characterize the physical and hydrogeologic setting of Characterize the nature and extent of contamination at the sites, if present:-

Support a Phase I Baseline Risk Assessment and Environmental Evaluation

Within these broad objectives. site-specific data needs have been identified based on specific contaminants potentially present at each IHSS and the data needs for the Phase I Baseline Risk Assessment and Environmental Evaluation The field sampling activities outlined in the RFI/RI Work Plans include surface water and sediment sampling, surface and subsurface soil sampling, alluvial ground water sampling, soil gas surveys, geophysical surveys, air monitoring, and radiation surveys

The Draft Phase | RFI/RI Report for OU5 is scheduled for completion in November 1993 and the Draft Report for OU6 is scheduled for completion in August 1993 Both documents will be submitted to EPA and CDH Details of field sampling activities are contained. in the OU5 and OU6 Phase I RFI/RI Work Plans, which are available in the Reading Rooms listed on page 6.



OU9 Original Process Waste Lines

perable Unit 9 (OU9) consists of a 35,000-foot network of underground pipes and tanks extending throughout much of the RFP main production complex. This pipeline network, called the Original Process Waste Lines.

(OPWL), was used to transfer wastes generated during operational processes from their origination point to the RFP process waste facility.

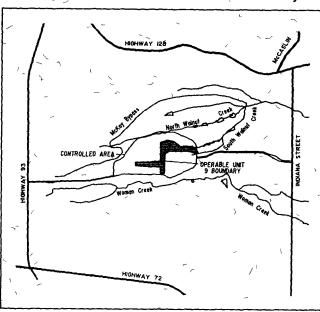
Only one IHSS was originally part

of OU9, but further investigative studies at RFP prompted DOE, ERA, and CDH to agree in April 1992 to transfer 20 additional IHSSs that are part of the process waste line system from other OUs into OU9 This OU is being studied because It is believed that soils may have been affected by leaking waste transport pipes or tanks Possible contaminants ınclude nitrates, acids, caustics, and radionuclides

A RCRA Facility Investigation/ Remedial Investigation (RFI/RI) Phase I Work Plan, designed to investigate areas close to existing and alreadyremoved OPWL pipelines and tanks, was also approved by CDH and EPA in April 1992 Field work will begin in late 1992 and will include soil borings and test pits to further identify sources and extent of soil contamination

A subsequent Phase II RFI/RI will investigate the nature and extent of surface water, ground water, and air contamination, and evaluate potential contaminant migration

The original OPWL system began operating in 1952, and additions were made to the system through 1975. It was replaced over the 1975 – 1983 period by a process waste system that can be easily inspected. Some tanks and pipelines from the original system were incorporated into the new process waste system.



0U16 Low-Priority Sites

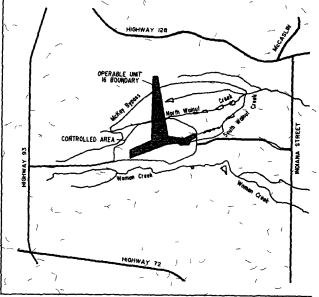
perable Unit 16 (OU16) covers miscellaneous leak and waste treatment areas located around RFP that are considered the least likely to cause health or environmental problems OU16 contains seven IHSSs that were grouped together in the IAG because of the likelihood that previous response actions or natural environmental processes at these areas had already eliminated the need for further action In accordance with EPA guidance, No Further Action is appropriate at sites where such processes have / mitigated risk to human health and the environment Because such actions have occurred at six of the OU16 IHSSs, DOE has proposed to take no further action at these sites DOE submitted a "No Further Action Justifix cation" document to EPA and CDH on July 30,1992, as required by the IAG However, because neither EPA nor. CDH has approved the document, it is being revised and will be resubmitted on October 16, 1992 DOE concluded that five of the seven IHSSs in OU16 will not require further remediation The remaining two IHSSs will require further action but will be investigated as parts of other OUs

The No Further Action Justification document for OU16 describes the site history, geology, hydrogeology.

climatology, and current and possible future land use to characterize OU16 Each IHSS, its spill history, potential contamination, and remedial action, if one was performed, is described Also described is a site conceptual model for OU16 that includes contaminant sources. release mechanisms, transport-pathways, exposure routes, and receptors This type of model is used to evaluate the amount, if-any. of risk to human health or the environment

The document also includes a proposal for what IHSSs should be further investigated (See above article, "What's an RFI/RIP")

Once EPA and CDH have approved the No Further Action Justification document, DOE will encourage public



input through the usual process including a public information meeting public comment meeting, and public comment period

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New Documents

OU9 Original Process Waste Lines Final Phase I RFI/RI Work Plan

RCRA Permit Modification Request No 9

Phase I RFI/RI Work Plan for Operable Unit 9, Original Process Waste Lines

Health and Safety Plan for RFI/RI at Operable Unit 3

- Environmental Restoration Program Monthly Report for June 1992
- Environmental Restoration Program Monthly Report for July 1992

Rocky Flats Transition Plan Report to Congress

State RCRA Permit Modification for Waste System Evaporator Project Phase I

Supporting Information for the State RCRA Permit Modification for Waste System Evaporator Project Phase I

EMD Administrative Procedure Manual

Health and Safety OU1

Work Plan OU1/Startup O&M of the IM/IRAP for the 881 Hillside

Work Plan OU4, Volume I

 Final Subsurface Interim Measures/Interim Remedial Action Plan/Environmental Assessment and Decision Document for Operable Unit No. 2, Volume I and II

Responsiveness Summary for the Final Subsurface Interim Measures/Interim Remedial Action Plan and Decision Document for the 903 Pad, Mound, and East Trenches Areas for Operable Unit No. 2

Calendar of Events

Quarterly Environmental Restoration Public Information Meeting and Plant Tour

October 8, 1992, 5 00 p m to 8 00 p m at the Rocky Flats Plant, Building 60

General Rocky Flats Plant Tours
October 12 and November 9, 1992
Please call 303-966-4261 one week in
advance for reservations

Colorado Council on Rocky Flats / Meeting (Tentative)

October 27 and November 24, 1992, 7.00 p.m. Please call the Council to verify meeting date and location at 303-232-1966

DOE Requests Permit Modification No. 9

OE is requesting a Class 3 modification to its current RCRA Part B permit for additional hazardous waste tank storage and treatment Class 3 modifications are changes that substantially alter the facility or its operations. The modification must undergo public comment and be approved by the Colorado Department of Health (CDH)

This permit modification would upgrade a portion of the existing liquid process waste treatment facility at the Rocky Flats Plant, Building 374. The proposed upgrade would consist of the addition of a thin-film evaporator and a salt immobilization system, including associated feed storage tanks. This equipment would concentrate and immobilize the low-level mixed waste. The new equipment would provide increased capacity and improved

capability for waste evaporation and immobilization

A 60-day comment period for the permit modification request began August 25, 1992, and ends October 23, 1992. A public information meeting to discuss this Class 3 permit modification was held on October 1, 1992. Written comments will be accepted throughout the comment period.

Please address written comments to Gary Baughman, CDH, 4210 East 11th Avenue, Denver, Colorado 80220 or call 303-331-4847 Mr Baughman can also provide RFP's compliance history during the life of the permit The RCRA permit modification request and supporting documents are available for review at the reading rooms listed on page 6

Rocky Flats Forms Citizen Review Group

OE and EG&G Rocký Flats have formed a Citizen Review Group (CGR) to initiate public involvement activities on the Comprehensive Treatment and Management Plan (CTMP) The CTMP is being developed to manage land disposal restricted (LDR) wastes generated over the past 40 years of operation and will halp bring those wastes into compliance with today's regulations. The

CTMP identifies specific LDR wastes at the plant that are covered in the Federal Facilities Compliance Agreement II, states how these wastes will be brought into compliance, and develops the milestones for those wastes that require treatment

Comprising of participants from academia, business, government, and surrounding communities, the CRG

meets regularly to review the CTMP and related technology development materials and will provide comments to DOE and EPA, who will then consider how to incorporate their suggestions. A 60-day public comment period will then be initiated, during which a public information meeting/workshop will be conducted to fully explain LDR wastes and the CTMP.

Public Invited to Use Reading Rooms

information, technical reports, and reference documents on environmental restoration at the Rocky Flats Plant,

Rocky Flats Environmental Monitoring Council* 1536 Gole Boulevard, Suite 325 Denver West Office Park, Building 4 Golden, Colorado 80401 303-232-1966

Hours

830 am - 500 pm Monday - Friday

EPA Superfund Records Center 999 18th Street, Suite 500 Denver, Colorado 80202 2405 303 293 1807 Hours

Monday - Friday

8 00 a m \neq 4:30 p.m

The following reading rooms contain current? Colorado Department of Health* Rocky Flats Program Unit 4210 East 11th Avenue; Room 420 Denver, Colorado 80220 303-331-4855 Hours

Monday - Friday

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800 am - 500 pm

Rocky Flats Public Reading Room* Front Range Community College Library 3645-West 112th Avenue Level B, Center of Building Westminster, Colorado 80030 303-469-4435

Hours

Monday - Tuesday 12 00 p m - 8 00 p m 1100 am - 400 pm Wednesday Thursday - Friday 8 00 a m - 4 00 p m

Standley Lake Library 8485 Kipling Street Arvada, Colorado 80005 303-423-4600

Hours

Monday - Friday 10 00 a m - 9 00 p.m Friday - Saturday 10 00 a m - 5 00 p m 1200 pm - 500 pm Sunday

United States Department of Energy Freedom of Information and Privacy Branch Office 1000 Independence Avenue, S W Washington, D C 20585 202-586 6025

Hours.

9.00 a.m - 4 00.p m Monday - Friday (Eastern time zone) *Information Repository

EG&G Rocky Flats, Inc P.O Box 464 Golden, CO 80402-0464 First Class Mail US Postage PAID Denver, CO Permit No. 162